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(71) Applicant: ISHIHARA KEN

HITACHI MEDICAL CORP

(72) Inventor: ISHIHARA KEN

OGAWA TOSHIO

KISHIMOTO SHINJI

KONDO TOSHIRO

(54) ULTRASONIC DIAGNOSING APPARATUS

(57) Abstract:

PURPOSE: To display an elastic image showing the hardness of a living body tissue by conducting the operation between two time series tomographic images so as to measure the travel distance and displacement on the respective points on a tomographic image, measuring or estimating the pressure in the body cavity of a diagnosed region of an examinee, and operating the modulus of elasticity of the respective points on a tomographic image from the displacement and pressure to apply hue information.

CONSTITUTION: A displacement measuring means 8 performs the operation between two time series tomographic images obtained by a tomographic scanning means to measure the travel or displacement of the respective points on a tomographic image. A pressure measuring means 9 measures or estimates the pressure in a body cavity of a diagnosed region of an examinee. The elastic modulus operating means 10 operates the modulus of elasticity of the respective points on a tomographic image from the displacement and pressure obtained in the respective measuring means 8, 9 to generate elastic image data. A hue informa-

tic modulus operating means 10. In a switching and adding means 12, the black-and-white tomographic image data from the tomographic scanning means and the color elastic image data from the hue information converting means 11 are added or switched to be displayed on an image display means 7.

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